ABSTRACT OF THE INVENTION

An ultrasound imaging device having a cableless coupling for coupling a two-dimensional array of ultrasound transducers to a signal generating and receiving unit such as a motherboard. The coupling includes an acoustically attenuating and electrically conductive structure, which can include posts that are electrically conductive or electrically insulative having a conductor embedded or mounted on the outer surface. There can also be a high density connector allowing coupling and de-coupling the two dimensional array to and from the motherboard.

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